

1 **In the Drawings:**

2  
3 In Fig. 3, box 31, please delete the label "D/A CONVERTER"  
4 and replace this with the label A/D CONVERTER.

5  
6 **In the Claims:**

7  
8 **Claim 1. (CANCELLED)**

9 **Claim 2. (CANCELLED)**

10 **Claim 3. (CANCELLED)**

11 **Claim 4. (CANCELLED)**

12 **Claim 5. (CANCELLED)**

13  
14 **Please amend Claim 6 as follows.**

15  
16 **6. (Currently Amended)** A digital radio system, comprising:  
17 a transmitter unit, the transmitter unit including a  
18 transmitter programmable processor, wherein a signal stream  
19 transmitted by the transmitter unit is encoded with an  
20 encoding algorithm installed in the transmitter  
21 programmable processor; and  
22 at least one receiver unit, the receiver unit  
23 including:  
24 apparatus for receiving the signal stream  
25 transmitted by the transmitter unit and converting the  
26 signal stream into a digital format signal stream;  
27 identification apparatus, the identification  
28 apparatus determining when an updated decoding algorithm

1 decoding the digital format signal stream is installed in  
2 the receiver unit; ~~the transmitter unit requesting the~~  
3 ~~updated decoding algorithm when the updated decoding~~  
4 ~~algorithm is not installed in the receiver unit;~~ and  
5 a receiver programmable processor for decoding  
6 the digital format signal stream using a the updated  
7 decoding algorithm installed in the receiver programmable  
8 processor, the receiving unit requesting the updated  
9 decoding algorithm when the updated decoding algorithm is  
10 not installed in the receiving unit.

11  
12 7. (**Previously Amended**) The digital radio system as  
13 recited in claim 6 wherein the updated decoding algorithm  
14 is broadcast in a broadcast transmission control channel to  
15 update the receiver unit.

16  
17 8. (**As Filed**) The digital radio system as recited in  
18 claim 6 wherein a dual transmission mode is used to update  
19 the receiver unit.

20  
21 9. (**Previously Amended**) The digital radio system as  
22 recited in claim 8 wherein the dual transmission mode  
23 includes transmission of an old transmission format and the  
24 updated transmission format simultaneously.

25  
26 **Claim 10. (CANCELLED)**

27  
28 11. (**Previously Amended**) A method for altering an encoding  
29 and a decoding algorithm in a digital radio system, the

1 digital radio system including a transmitter and at least  
2 one receiver unit, the method comprising:  
3 installing an updated encoding algorithm in a  
4 programmable processor of the transmitter unit;  
5 providing an updated decoding algorithm for a  
6 programmable processor of the receiver unit, wherein the  
7 providing step includes the steps of;  
8 transmitting the updated decoding algorithm by  
9 the transmitter unit to the receiver unit,  
10 converting the transmitted updated decoding  
11 algorithm to a digital signal format; and  
12 applying the converted updated decoding algorithm  
13 to the receiver programmable processor, wherein the  
14 receiver programmable processor installs the decoding  
15 algorithm for decoding of transmitted encoded signal  
16 streams by the transmitter unit.

17  
18 **Claim 12. (CANCELLED)**

19  
20 **Claim 13. (CANCELLED)**

21  
22  
23 14. **(Previously Amended)** The method as recited in  
24 claim 11 wherein the encoding and decoding algorithms refer  
25 to algorithms for encoding and decoding a transmission  
26 signal stream format.

1   **Claim 15. (CANCELLED)**

3   **Claim 16. (CANCELLED)**

5   **Claim 17. (CANCELLED)**

8       18. (**Previously Amended**) A digital radio receiver unit  
9   responsive to a signal stream from a transmitting unit, the  
10   receiver unit comprising:

11       an antenna for receiving a signal stream from the  
12   transmitting unit;

13       a receiver circuit for converting the signal stream to  
14   a digital signal stream;

15       a programmable processor for processing the digital  
16   signal format stream, the programmable processor including  
17   a decoding algorithm for decoding the digital format signal  
18   stream, wherein when the digital format signal stream  
19   requires a different decoding algorithm for decoding, the  
20   programmable processor installs a new decoding algorithm  
21   therein; and

22       an output device wherein, when the programmable  
23   processor determines that the an updated new decoding  
24   algorithm needed to decode the digital signal stream is not  
25   installed therein, the user is alerted by signals applied  
26   to the output device providing status signals indicating  
27   that the updated decoding algorithm is not present, the  
28   user obtaining the new status signals causing the updated  
29   decoding algorithm and installing the new decoding  
30   algorithm to be installed in the programmable processor.

1   **Claim 19. (CANCELLED)**

2

3   **Claim 20. (CANCELLED)**

4

5   **Claim 21. (CANCELLED)**

6

7   **Claim 22. (CANCELLED)**

8

9

10   23. (**Previously Amended**) The receiver unit as recited in  
11   claim 18 wherein the decoding algorithm is an algorithm for  
12   decoding a transmission transmitted signal format.

13

14   **Claim 24. (CANCELLED)**

15

16   **Please amend Claim 25 as follows.**

17

18   25. (**Currently Amended**) A transmitter unit for use in a  
19   digital radio system, the digital radio system including at  
20   least one receiver unit having a programmable processor,  
21   the transmitter unit comprising:

22       an A/D converter responsive to analog input signals,  
23   the A/D converter providing a digital representation of the  
24   analog input signals;

25       a format encoding unit coupled to the A/D\_\_converter,  
26   the format encoding unit controlling the encoding a  
27   transmission format of a broadcast transmission according  
28   to a transmission format encoding algorithm, wherein the  
29   transmission format encoding algorithm is updated; and

1        an up-converter and power amplifier unit for  
2        processing signals from the format encoding unit in an  
3        updated transmission format; and  
4        an antenna for broadcasting signals from the up-  
5        converter and power amplifier unit,  
6        wherein the broadcasting signals can include updating  
7        signals, the updating signals permitting the programmable  
8        processor to be decode the transmission format updated  
9        signals.

10  
11    26. **(As Filed)**        The transmitter unit as recited in  
12    claim 25 wherein the transmitter unit broadcasts decoding  
13    algorithms and transmission format algorithms to receiver  
14    units of the digital radio system.

15  
16    27. **(As Filed)**        The digital radio system as recited in  
17    Claim 6 wherein the updated decoding algorithm is provided  
18    by one provider selected from the group consisting of the  
19    manufacturer of the receiver unit and the transmitter unit.